ACCESSION NR: AT4002916

\$/3037/63/002/000/0100/0119

AUTHOR: Valeyev, K. G.

TITLE: Linear differential equations with sinusoidal coefficients and constant delay argument

SOURCE: Kachestvenny*ye metody* teorii nelineyny*kh kolebaniy. Mezhdunarodny*y simpozium po nelineyny*m kolebaniyam, Trudy* Kiev, 1961. Trudy*, v. 2, 1963, 100-

TOPIC TAGS: linear differential equation, equation with delay argument, equation with sinusoidal coefficients, double matrix series, matrix continued fraction, series convergence, continued fraction convergence, characteristic exponent

ABSTRACT: Fifteen systems of linear differential equations with sinusoidal coefficients are considered. For the representation F(P) corresponding to the Laplace transformation of the solution Y(Z), a system of linear difference equations is formed, and the solution of this system is obtained in the form of a double matrix series. The isomorphism between generalized numbers F(P) and the terms of the series is established. The relations for the generalized numbers give the corresponding relations for the series terms, and so the series of F(P) is F(P) and F(P) in the series of the serie

ACCESSION NR: AT4002916

itself converge over the whole complex plane ?. Convenient formulas are given to obtain the original Y (t) from the representation F (?). An equation is derived to determine the characteristic exponents of the solution Y (t) or the singularities of the transformation F (?). Systems of linear differential equations with sinusoidal coefficients and constant delay argument are considered in a similar way, resulting in a general representation of the solution Y (t) of linear differential equations with periodic coefficients and constant delay argument is given. The stability of some illustrative special systems of differential equations is investigated. "In conclusion, I would like to thank Prof. A, I. Lur'ye for his help." Orig. art. has:

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 20Dec63

ENCL: 00

SUB CODE: MM

NO REF SOV: 005

OTHER: 002

Card 2/2.

L 13069-63

EWT(d)/FCC(w)/BDS

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ACCESSION NR: AP3000950

5/0140/63/000/003/0019/0022

AUTHOR: Valeyev, K. G. (Leningrad)

Construction of solutions of a system of linear differential equations in TITLE: the neighborhood of a regular singular point

SOURCE: IVUZ. Matematika, no. 3, 1963, 19-22

TOPIC TAGS: differential equation system, regular singular point, Laplace transform

ABSTRACT: Construction of solutions of a system of differential equations in a neighborhood of a regular singular point is accomplished by making an exponential change of variable and making use of Laplace transform to obtain a solvable system of difference equations whose solution is theoretically invertible, using one of the standard inversion formulas. "In conclusion I thank Professor A. I, Lur'ye for his attention and help in this work." Orig. art, has: 25 formulas.

ASSOCIATION: none

SUBMITTED:

12Apr60 DATE ACQ:

12Jun63

ENCL:

SUB CODE:

NO REF SOV: 001

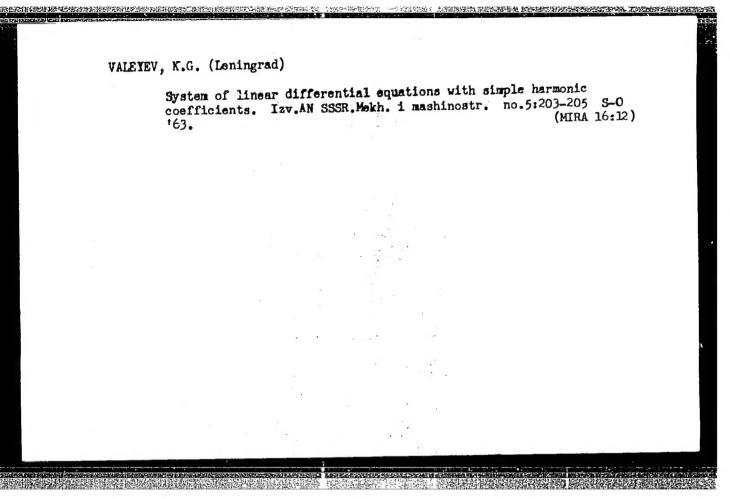
OTHER:

Card 1/1

VALEYEV, K.G. (Leningrad)

Stability of solutions of a second-order linear differential equation with periodic coefficients and a retardation of the argument. Isv.AN 3SSR.Otd.tekh.nauk.Mekh.i mashinostr. no.31 (MIRA 16:3)

161-162 My-Je '63. (Differential equations, Linear)



VAlEYEV, K.G.

AID Nr. 983-14 5 June

CASES OF INTEGRABILITY OF MOTION EQUATIONS (USSR)

Valeyev, K. G. Prikladnaya matematika i mekhanika, v. 27, no. 2, 1963, 211-217. S/040/63/027/002/003/019

A study is made of the integrability of the motion equation

$$\frac{\mathrm{d}^2 r}{\mathrm{d}t^2} = -\frac{\mathrm{kr}}{r^3} + \mathrm{F}, \ k = \mathrm{const}, \ r = |r|, \tag{1}$$

where r is the radius vector of a mass point moving around the fixed origin, and F is a perturbation force acting upon the unity of mass. Equation (1) is reduced to the equivalent system of motion equations in terms of G(momentum), γ , g, and s (unit vectors of the orthogonal directed trihedral) and F_{γ} , F_{g} , and F_{g} (projection of the perturbation force F into axes coinciding with the direction of γ , g, s) which is more convenient for integration. Solution of this system is investigated for various particular forms of the perturbation force F.

Card 1/2

AID Nr. 983-14 5 June

CASES OF INTEGRABILITY OF MOTION [Cont'd]

8/040/63/027/002/003/019

The case of a plane motion ($F_g \equiv 0$; g is the unit vector perpendicular to a plane of motion) is analyzed first; it is shown, that the system can be integrated when $F_{\gamma} = kr^{-2} + ar^{-3}$; $F_s = br^{-4}$; and $F_g = 0$ (a and b are constants). This method for integrating motion equations is proposed for a more general case where a and b are not constants but certain functions of G. Integrability of motion equations when the force F acts in the direction of the velocity dr/dt of a moving mass point is analyzed for particular forms of the perturbation force. [LK]

Card 2/2

	L 15569-63	EWT(d)/FCC(w)/	BDS AFFIC	IJP(C)		
i *	ACCESSION NR:	AP3003252	r	s/00/	10/63/021/003/0	1565/0572
	AUTHOR: Valcye	v, K. G. (Leningrad	1)		6	12
	TITLE: Converge	ence of series defi second order linear	ning the boun	deries of insta equation with	bility regions periodic coeff	for icients
	SOURCE: Priklad	innya matematika i	mokhanika, v.	27, no. 3, 196	3, 565-572	
	TOPIC TAGS: indeter, nonlinear	stability, instabi r differential equa	lity region,	differential	equation, smal	1 peram-
· · · · · · · · · · · · · · · · · · ·	ABSTRACT: The	nuthor considers th	e differentia	1 equation	0) %	
		$\frac{d^2y}{dt^4}$	+ (\(\lambda - \mu a \) y ==		(1.1)	-
	where w					
	$a(t) = \sum_{i=1}^{n}$	$a_s e^{2ist}$, $u_{-s} = \overline{a}_s$,	$Im a_0 = 0$		(1.2)	-
	He is intereste	d in determining ex	pansions µ, λ,	гдо λ_{n1} (й) $\geqslant \lambda_{n2}$ (й)	······································	(1.8)
		2.	$\lambda_{n1}(h) = u_2 + h$	$b_1 + \mu^2 b_1 + \ldots + \mu^r$	$b_r + \varepsilon_1(\mu)$ $(n = 0)$	1.2
	Card 1/3		$\lambda_{n2}\left(\mu\right)=n^{3}+\mu$	c1 + μ ⁸ 01 + + μ ¹	c _p - τ ε ₁ (μ)	
1 21		and the second s				

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	L 15569-63
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	defining the region of n-th instability and, in particular, obtaining estimates of the functions $\mathcal{E}_1(\mu)$, $\mathcal{E}_2(\mu)$ depending on the coefficients a_s of (1.2) and the known coefficients b_s , c_s of (1.3). Here $\lambda_{n1}(\mu) \geq \lambda_{n2}(\mu)$. The author uses the
	fact that on the boundary of the n-th region of instability (1.1) admits a solution
	of period 2 for the form $y = e^{nit} \sum_{k=-\infty}^{\infty} e^{2ikt} y_k $ (2.1)
	Substituting (2.1) into (1.1), he obtains an infinite system which can be used to define the functions in (1.3). Theorem 1: The expansion of the function $\lambda_0(\mathcal{A})$ in powers of \mathcal{A} , defining the boundary of the zero-th region of instability $(\lambda_0(\mathcal{A}) \to 0 \text{ as } \mathcal{A} \to 0)$ of the solution
	of (1.1), is mejorized by the series
	$\lambda_{0}(\mu) \ll \mu \gamma_{1} + 2h_{1} (\gamma_{1} \gamma_{2})^{-\frac{1}{2}} \sum_{k=1}^{\infty} (\mu h_{1})^{k}, \qquad h_{1} = 0,25 (\sqrt[4]{\gamma_{1}} + \sqrt[4]{\gamma_{2}})^{2}$
1.	which converges for
	$ \mu \leqslant \mu_1 \equiv h_1^{-1} \equiv 4 \left(\sqrt{\gamma_1} + \sqrt{\gamma_2} \right)^{-2}$
	Card 2/3
1	

ACCESSION NR: AP3003252			The second secon			→
There are similar theorems for continuous, and one theorem to has: 93 formulas.	the function handle the	n $\lambda_{\rm ni}$ wh	ich are usefu iscontinuous	l when a	a(t) is Orig. er	ナ.
ASSOCIATION: none						
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Card 3/3			* *	• 1		

VALEYEV, K.G. (Leningrad)

Adverse effect of combined resonances. Prikl. mat. i makh. 27 no.6:
1134-1142 N-D '63.

MIRA 17:1)

VALEYEV, K.G. (Leningrad):

"A qualitative analysis of differential equations of flight using a solar sail"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964.

CIA-RDP86-00513R001858430002-0 "APPROVED FOR RELEASE: 08/31/2001

4: L 9939-65 ENI(d) Pg-4 IJP(c) AFRI/ESD(de //ASD(f)-//ASD(d) ADD. 4 -ACCESSION HR: AT4047141 AFETR/SSD KLK \$/0000/64/000/060/0110/0122 Valeyev, K. G. (Leningrad); Rakit*skiy, Yu. V. (Leningrad) TITLE: Use of difference methods in determining regions of instability of solu tions of systems of linear differential equations SOURCE: Chislenny*ye metody* resheniya differentsialiny*kh i integraliny*kh uravneniy I kvadraturny*ye formuly* (Numerical methods of solving different a and integral equations and quadrature formulasi, sbornik starny, Moscom-Nauka, 1364, 110-122 TOPIC TAGS: differential equation, ordinary differential equation, scability, difference equation, continued fraction, matrix, determinant ABSTRACT: The article deals with the stability of solutions of systems of linear differential equations and their corresponding systems of difference equations Conditions are studied for the applicability of numerical difference were

determining regulate of costabilities. A lew of the main characteristics of

involving matrix functions of a variable or get cost over tost

of difference equations with periodic coefficients are noted, these belog a fromtiated from difference Equations with constant over scients. Various techniques

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	sis could acquait to the made	all applied to rather specific their solutions for stability warm generally application	
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ACCESSION NR: APLO34278

the equations of motion yield

$$d\hat{x}/d\phi = xy - 2bx^2, \qquad dy/d\phi = 1 - x(1-a) - bxy + y^2 \quad .$$

For a=b=0, the unperturbed Keplerian motion is studied for a family of conic sections with eccentricity \mathcal{E} . For a logarithmic spiral trajectory, q= constant,

the equations of motion become

$$xy - 2bx^3 = 0$$
, $1 - x(1 - a) - bxy + y^3 = 0$ $(x > 0)$.

These are solved for the special cases 1) a = b = constant and 2) thrust forms is tangent to the trajectory or $\theta = \infty$. It is shown that for a = b = constant, the resulting solution is unstable. For thrust vector P, independent in absolute magnitude of the force direction, expressions are derived for the optimum force direction on a circular orbit, E = 0, and a parabolic orbit, E = 1. The selection of an optimum sail setting 0 (with respect to solar rays) leads to the

Card 2/3

ACCESSION NR: AP4034278

expressions

$$\frac{\pi}{2} - 7 + \theta = \Psi\left(\frac{\pi}{2} - \theta\right), \qquad \gamma = 2\theta + \sum_{k=1}^{\infty} \frac{\sin 2k\theta}{k \, 3^k}$$

$$|\theta| < \frac{1}{6}n, \qquad |T| < \pi$$

the values of which are calculated for $\xi=0$, 0.5, and 1, where γ is the angle between thrust and solar-ray direction. Orig. art. has: 4 figures and 90 formulas.

ASSOCIATION: none

SUBMITTED: 12Nov63

ATD PRESS: 3069

ENCL: 00

SUB CODE: ME, SV

NO REF SOV: 006

OTHER: 003

Card 3/3

Numerical solution of a linear differential equation with exponential coefficients and linear reteriation. Thus, vym. mat. i mat. fiz. A no.4(suppl.):129-13. '64. (MURA 18:2)

ACCESSION NR: AP4029378

\$/0199/64/005/002/0290/0309

AUTHOR: Valeyev, K. G.

TITLE: Linear differential equations with a delay linearly dependent on the arguments

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 5, no. 2, 1964, 290-309

TOPIC TAGS: differential equation, linear differential equation, ordinary differential equation, stability theory, Laplace transform, analytic function, delay argument

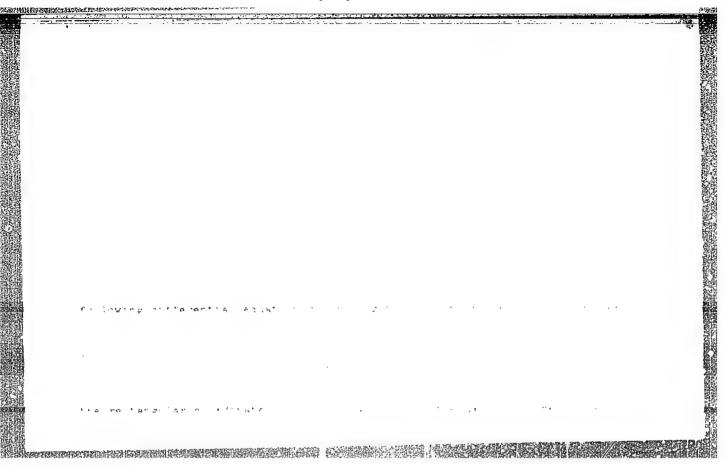
ABSTRACT: The paper presents a sufficiently complete theory of linear differential equations with constant coefficients and with delays in the arguments which are linear functions of the arguments. The Laplace transform method is used to determine the analytic properties of the solutions of such equations. Both the solutions and their transforms are given in the form of series. The simplest case, when the delays are directly proportional to the arguments, is explicitly developed. A great deal of attention is paid specifically to the question of the stability of the solutions. The theory presented in the paper is useful, for example, possible to ignore the delays in the transmission of the control signals. In a

ACCESSION NR: AP4029378

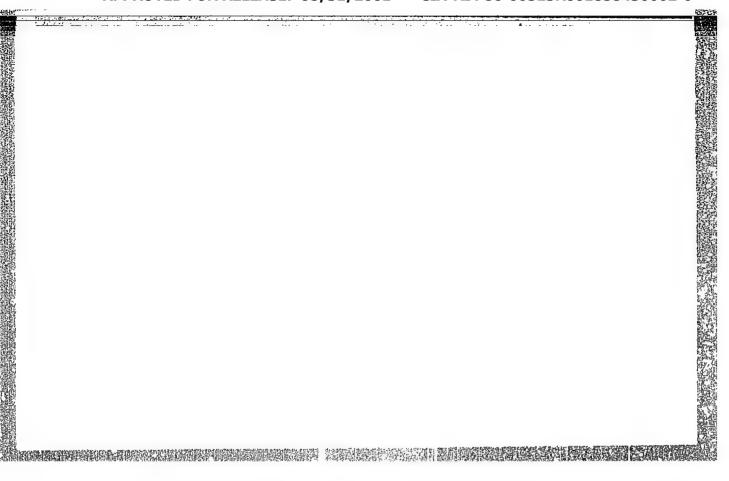
sense this paper is a continuation of earlier work by the same author. "The author thanks V. I. Zubov for his assistance." Orig. art. has: 125 formulas, ASSOCIATION: none

SUBMITTED: 04Jan63 ATD PRESS: 3056 ENCL: 00

SUB CODE: MA NO REF SOV: 004 OTHER: 003







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AUTHURS: Yaleyev, L. V. (Delinie			
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SOURCE: Prikladnaya matematika	i mekhanika. Y. 4	9, no, 1965, 236-	248
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ACCESSION NR: AP\$C14941	18/00m (sergina asia)
AUTHORS: /a.eyev, / Languation	
	for attribution of the policy of the section of the
SUPRIE: Prikiadnaya matematiks i mekh	anika, v. 29, no. 3, 1965, 486-487
THE ID TANS: Integral sale with several sale.	
ASSIMACI: Certain cases of the problem motion are integrable are studied. The	a of forces with which the equations of saystems of equations
$\frac{d^2r}{ds^2} = -kr/r^3 + F$	
is given with initial conditions	•
$r = r_{\rm th} = dr / dt$	$l = t_0$, $l = t_0$
there r is the radius vector of a mater supplementary to Newtonian. The center	ial point M with unit mass; F - a force, of gravity is located at a point C. The indich F lies in the plane of motion. A

L 19218-65

ACCESSION NR: AP5014341

polar coordinate system is used in which mits measures from some fixed direction. In this coordinate system the equation system appears as

$$r^{\mu} - r p^{\mu} = -k r^{\mu} + F_{\mu\nu} \quad r p^{\nu} + 2r q = F_{\nu} \quad (r = dr) dr$$

with initial conditions

where F_r and F_0 are projections of the former on the respective directions r and ϕ . The projections of the suppliend that r is the least that forme are r, r. as $q = F_r R^{2} L \cdot \beta = F_\phi^{-2} L \cdot r$

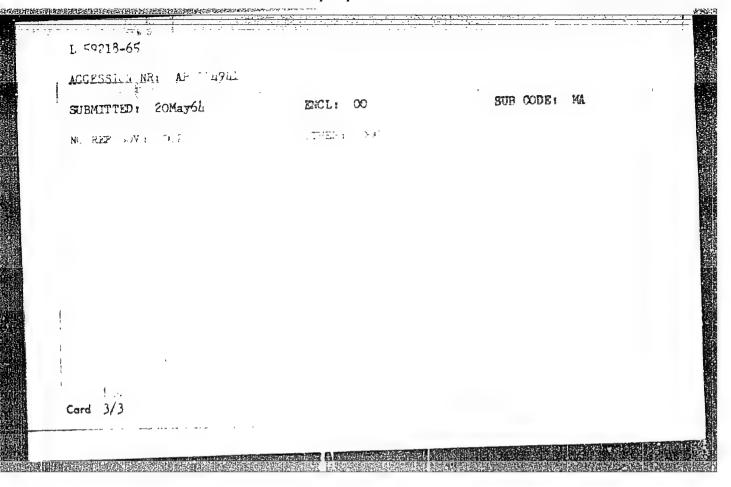
A transformation to Cartesian coordinates is made to facilitate solution by approximate asymptotic methods. A architary interacts first and that

$$F_{\bullet} = \frac{k}{r^{2}} \otimes \left(\frac{k}{r^{2} \otimes i}\right), \qquad F_{\bullet} = m \frac{kr}{r^{2} \otimes i}, \qquad m = \text{const.}$$

A particular solution is found and is applied in finding trajectories of motion of the point M for enveral additions, pages of fore lesson, in the contract of

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AUSCCIATION: none



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L 00275-66 EWT(d)/EWT(1)/EWP(m)/FS(v)-3/EWA(d) IJP(c) GW ACCESSION NR: AP5021309 UR/0040/65/029/004/0751/0751
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TOTAL MOTATION AND A STATE OF THE STATE OF T
TITLE. A 19755
a dase of integrability of perturbed motion equals
SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 4, 1965, 751
monro mess. Prikladnaya matematika i mekhanika, v. 29, no. 4, 1965, 751
differential equation, satellity orbit
ABSTRACT. The Country of the Country
ABSTRACT: The author considers 44,55,12
ABSTRACT: The author considers $44.55,19$ Frank Fp are projections of the perturbing force $(k = const)$. (1)
it is assumed that to
THE PLANT OF THE THEFT AND THE TENTH OF THE TENTH OF THE THEFT AND THE THE THEFT AND THE THE THEFT AND THE
the plane of the trajectory. If the magnitude of F depends only on v and lies in distance r from the satellite to the attracting center.
distance r from the satellite to the attracting center, (1) reduces to $F_{\bullet} = -F(f_{\bullet}, \eta)$
The author seeks a solution of (2) subject to $V_{r^{2}\overline{\varphi}^{3}+r^{2}}$ (2)
which he finds in quadratures under the given assumptions. (1), (2) also apply to
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The state of the s

L 00275-66 ACCESSION NR: AP5021309		,	-
electron motion in electromagnet certain cases of electron motion elektromov v elektromagnitnykh p form (1), (2)." Orig. art. has:		ye noted to the elds (S. A. Bogu 9) lead to equat	author that slavskiy. Puti ions of the
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ASSOCIATION: none SUBMITTED: 030ct64	ENCL: 00		SUB CODE: 10
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EWT(1)/EWP(m)/FS(v)-3/EWA(d)ACC NR: AP6000549 SOURCE CODE: UR/0040/65/029/006/1100/1104 AUTHOR: Valeyey, K. G. (Leningrad) 44 ORG: none TITLE: Equations of motion for an earth satellite with a consideration of SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 6, 1965, 1100-1104 TOPIC TAGS: artificial satellite, aerodynamic drag, satellite orbit ABSTRACT: The equations of motion describing the orbit of an artificial earth satellite, including the effects of aerodynamic drag, are analyzed. The satellite is described as a point particle M(x,y,z), and its trajectory is given in spherical coordinates r, 9, A. The atmospheric resistance is given by the vector $-\rho(u,\gamma,\nu)(v-\Omega\times r),$ where O is an empirically determined proportionality constant, and u = 1/r. equation of motion for M is given by $d^{2r}/dt^{2} = -\operatorname{grad} \Pi - \rho (dr/dt - \Omega \times r)$ Card 1/2

L 9231-66

ACC NR: AP6000549

where T is the potential energy of M $\Pi\left(u,\gamma\right)=-\mu u-su^{2}\left(1-3\gamma^{2}\right)-\cdots$

To make the equations amenable to numerical analysis, the following independent

variable is introduced

 $|d\tau = r^{-\delta} | r \times dr | = r^{-\epsilon} | r \times dr / dt | dt = r^{-\epsilon} k dt = (h)^{\ell_0} d\phi,$

and the resulting set of equations for the satellite motion is written in the form

 $u'' + u = -\frac{1}{h} \frac{\partial \Pi}{\partial u} + \frac{1}{hu^3} \frac{\partial \Pi}{\partial \gamma} \gamma' u' + \frac{\rho \Omega}{hu^4} (1 - \gamma^2 - \gamma'^2)^{1/2} u'$ $\gamma'' + \gamma = -(1 - \gamma^3 - \gamma'^2) \frac{1}{hu^3} \frac{\partial \Pi}{\partial \gamma} - \frac{\rho \Omega}{hu^4} (1 - \gamma^2 - \gamma'^2)^{1/2} \gamma'$ $h' = -\frac{2}{u^3} \frac{\partial \Pi}{\partial \gamma} \gamma' - \frac{2\mu}{u^3} \frac{\gamma' \bar{h}}{h^2} + \frac{2\rho \Omega}{u^4} (1 - \gamma^4 - \gamma'^4)^{1/2} \gamma'$

As an example, the stability of a circular equatorial orbit is considered, and

the following stability criterion is arrived at

Orig. art. has: 41 equations.

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Card 2/2

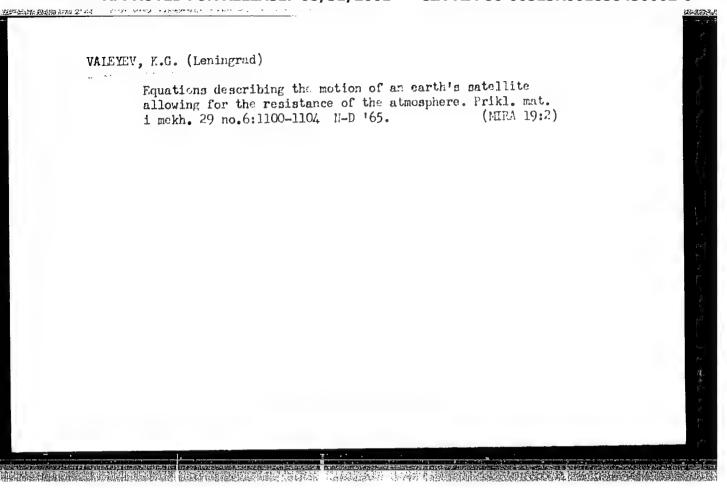
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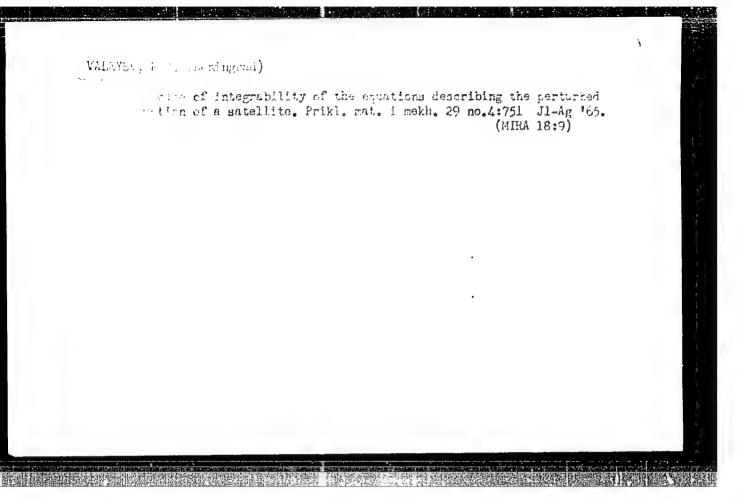
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VALEYEV, K.G.

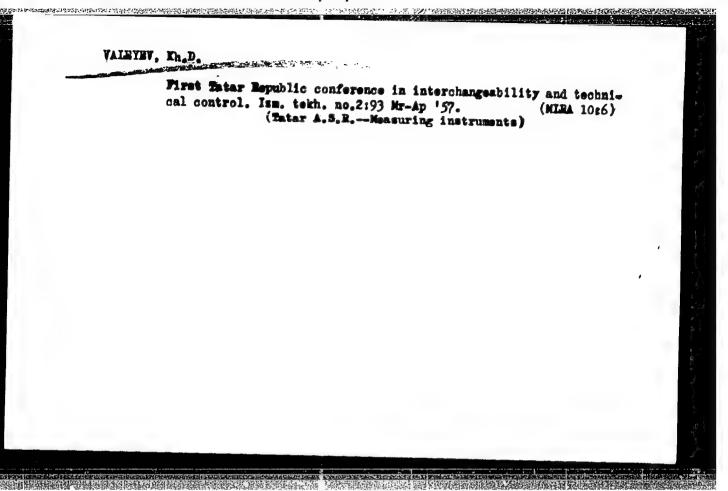
Theory of the Laplace bransformation. Frv. vys. uchsb. rav.: radiofis. 8 nc.28424.426 465. (MIRA 1886)

1. Leningradskiy politekhnicheskiy institut.



VALEYEV, K.G.

Theory of heat exchangers. Trudy LPI 252:7-15 '65. (MIRA 18:9)



	VALEYEV, Kh. S.	frequency pot-type condenser with steatitic of higher reactive magnitude and capacity, to developments in the Institute. Describe istics of materials, with scren diagrams an of experimental results.	USSR/Electricity (Contd)	empering-melting for condensers, manufatries. Although the of factories, development to development to development.	, Cand Tech Sci, t, 4½ pp o" No 3	Condensers, Electric Condensers, Electric Furnaces, Metallurgical "High-Voltage, High-Frequency Steatitic	38/49T23	The second of the second secon
·÷	38/49123	teatitic materials pacity, according Describes character- grams and a table	War 49	urnaces are furnished actured by factories actured by factories actured by factories alones condensers for sticmal-led completed. phigh-voltage, high-38/49725		Mar 49		The second of th

VALEYEV, MH.S.

AID P - 2009

Sub.ject

: USSR/Electricity

Card 1/2 Pub. 27 - 13/31

Author

: Valeyev, Kh. S., Kand. of Tech. Sci., Moscow

Title

Electric properties of steatitic materials at elevated

temperatures

Periodical: Elektrichestvo, 4, 56-62, Ap 1955

Abstract

: The author presents results of his tests with various types of steatite in temperatures up to 400°C. He finds that the breakdown strength of the electric field (Enp) depends to a large degree upon the structure and method of production of test samples, and also upon the speed in raising the voltage in the test. The Enp was found to be larger at d-c than at a-c of usual industrial frequency. At d-c it increases with the temperature and reaches a maximum which is specific for each type of steatite, and then declines. At

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Elektrichestvo, 4, 56-62, Ap 1955

4.11年中央1985年的大百年的大型的大型的大型的大型的大型的大型工作。

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Card 2/2 Pub. 27 - 13/31

a-c up to 250°C, E_{np} in practice does not change. Eight diagrams, 4 tables, 13 references (1937-1954).

Institution: None

Submitted : No date

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ALEKSANDROV, N.V.; BOGORODITSKIY, N.P.; VALKYEV. Kb.S.; YUL, B.H.; DROZDOV, N.G.; KURBATOVA, N.S.; MIKHAYLOV, G.P.; MIKHAYLOV, M.M.; PETROV, G.N.; PRIVEZENTSEV, V.A.; HENNE, V.T.; SKANAVI, G.I.

Professor B.M.Tareev. Elektrichestve ne.8:94 Ag 156. (MIRA 9:10) (Tareev, Beris Mikhailevich)

VALEYEV, Kh.S., kand.tekhn.nauk; MASHKOVICH, M.D., kand.tekhn.nauk

Semiconductor oxide ceramics. Trudy GIEKI no.2:20-39 '57.

(MIRA 11:7)

(Ceramics) (Semiconductors)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858430002-0"

VALEYEV, Kh.S., kand.tekhn.nauk; GAY, I.A., inzh.

Investigating certain titanate and zirconate formation processes.

Trudy GIEKI no.2:39-53 '57.
(Geramics) (Titanates) (Zirconates)

VALEYEY, Kh.S., kand.tekhn.nauk; KRASNOGOLOVYY, N.K., inzh.; LITVINOVA, M.I.

Investigating the reversing dielectric permittivity of certain ferroelectric ceramic materials in the domain of weak variable fields. Trudy GIEKI no.2:100-109 '57. (MIRA 11:7) (Dielectric constants) (Ceramic materials) (Ferroelectric substances)

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AUTHORS

Valeyev Kh.S., Mashkovich M.D.

57-8-2/36

TITLE

Nonlinear ZnO-TiO2-Semiconductors.

("elineynyye poluprovodniki na osnove ZnO-TiO, - Russian)

PERIODICAL

Zhurnal Tekhn.Fiz., 1957, Vol 27, Nr 8, pp 1649-1651 (U.S.S.R.)

ABSTRACT

Some electric properties of polycrystalline oxide-semiconductors in a consecutive composition series, starting with little additions of TiO2 to ZnO and ending with additions of up to from 30-40% mole TiO2-which are already dielectrics-were investigated. With little quantities of TiO2(1-3 % Mole) the resistance decreased compared with pure ZnO. However, beginning with 10% TiO2 the resistance increases atrongly. The authors stated that with a content of up to 30% T102 electronic conduction, and with higher TiO2 concentrations hole conduction develops. Based on the investigations can be said that the semiconductor mixtures on ZnO-TiO2 basis are a mixture of crystalline phases with different kinds of conduction. We can assume that the reason for the remarkable nonlinearity of the polycrystalline materials investigated is to be found in the contact phenomeny at the limit of the zinc-oxide grains and of the zinc-crthititanate grains which depend on the electron-hole transitions. (1 illustration. 1 table and 7 Slavic references).

ASSOCIATION

SUBMITTED

AVAILABLE Card 1/1

GIEKI, Moscow. March 21, 1957

Library of Congress.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858430002-0"

VALEYEV, Kh.S.

AUTHORS:

Valeyev, Kh. S., Drozdov, N. G., Frumkin, A. L. 57-11-14/33

TITLE:

Some Studies on Li-Zn-Ferrites (Nekotoryye issledovaniya v oblasti Li-Zn ferritov)

PERIODICAL:

Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 11, pp. 2517-2527 (USSR)

ABSTRACT:

The sintering process as well as some properties of Li-ferrites which are of importance as high-frequency materials as well as objects for physical investigations, are investigated. The investigation of the sintering process was mainly carried out according to the thermogram method. By means of the thermograms conclusions were drawn as to the temperature at which ferrites form, the interaction of ferrites and the atmosphere during annealing etc. A comparative classification of LI- and Ni-ferrites is given. The authors show that Li-ferrites are better capable of reaction than are Ni-ferrites. The reaction for the formation of the solid solution begins immediately after the thermal decomposition of lithiumcarbonate at 700°C and ends in a narrow temperature interval. The reaction temperature depends on the ratio of the components to one another. The interaction between ferrites and atmosphere during annealing was stated. It leads to the reversal loss of oxygen. The authors show that sintering above the temperature of synthesis is connected with the growing of the crystals as well

Card 1/2

Some Studies on Li-Zn-Ferrites.

57-11-14/33

as with the formation of their regular hexagon structure. The remainsults of magnetic measurements show that Li-Zn-Ferrites show a dispersion of the resonance type within the range of 107 cycles. The authors stated that the magnetic permeability of the ferrites investiggated is smaller than 1 at a wave length of 3,2 cm. Li-Zn-ferrites supply the usual absorption curve in dependence on the constant magnetic field in the case of high frequency. The thermal extension of the Li-Zn-ferrite within a wide temperature range was investigated and an anomaly was found in the near of the Curie point with the extension in consequence of heat. There are 9 figures, 3 tables and 12 Slavic references.

ASSOCIATION:

Moscow Institute for Energetics (Moskovskiy energeticheskiy in-

stitut)

SUBMITTED:

December 30, 1956

AVAILABLE:

Library of Congress

Card 2/2

24.7700

SOV/58-59-7-15748

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 7, p 156 (USSR)

AUTHOR:

Valeyev, Kh.S., Mashkovich, V.D.

TITLE:

Nonlinear Ceramic ZnO - TiO - Base Semiconductors

PERIODICAL:

V sb.: Primeneniye poluprovodnikov v elektrotekhn. Leningrad, 1958,

pp 115 - 123

ABSTRACT:

A new type of nonlinear resister has been developed from ZnO with admixtures of TiO_2 . It was established that the nonlinearity of the resulting ceramic semiconductors is due to electron-hole transitions on the grain-boundaries of ZnO and the spinel of $2ZnO - TiO_2$. Cheap raw materials were used for the preparation of these semiconductors. The presence of semiconductor properties in conjunction with nonlinearity at various concentrations of TiO_2 (10 to 25%) makes it possible to produce semiconductors with a ρ ranging from about 10^2 to 10^6 ohms \cdot cm (at 6 V). It is possible to prepare high-resistance, as well as low-resistance, nonlinear elements, capable of functioning at increased temperatures and of dissipating high power. (Gos.

issledovatel skiy elektrokeramich. in-t, USSR).

Card 1/1

The authors' résumé

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SCV/81-59-15-54103

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Memblation from Referalivnyy shurnel. Ministra, 1959, Nr 15, p 310 (USSR)

M.THORS:

Valeyev, Mr.S., Mashkovich, M.D.

TINE !:

Hon-Linear Coramic Semiconductors on the ZnO-TiC, Base

PETTODECAL: V sb.: Primeneniye poluprovodnikov v elektrotekhn. Leningrad, 1958,

op 115 - 127

ANDWRACK:

A new type of non-linear resistors on oxide base (ZnO and TiOp) has been proposed. It has been established that the cause of the non-Linearity of the obtained ceremic semiconductors are electron-hole transitions on the grain boundaries of zine and spinel 2Zn0-TiCo. is noted that the semiconductors of various configuration can be prepared by the usual methods of ceramic technology on the base of cheap promoterials. In this case the necessary semiconductor properties are ensured as a result of the burning in a weakly exidizing medium (SILit remaded. It is indicated that the presence of semiconducting properties in the bination with the non-linearity at various TiO2 concentrations

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Il neLinera Coro le desdesniretors on the PaG-TIO, Base

307/-12-59-15-5 143

(he - 250) makes it possible to obtain semiconductors with q varying approximately from 10^{2} to 10^{3} ohr cm. It is noted that this permits to produce high-ohm as well as low-obn non-linear elements which can operate at increased temperatures and concorrespondingly dissipate high powers.

G. Laslennikova

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24.3100

S/120/60/000/02/032/052

AUTHORS:

Valeyev, Kh.S., Vorontsov, Yu.N. and Horozov, M.G.

TITLE:

Spark Generator with a Flash Duration of Less Than

1 µs

PERIODICAL:

Pribory i tekhnika eksperimenta, 1960, No 2,

pp 122 - 123 (USSR)

ABSTRACT:

A device is described which can be used to produce light flashes having a duration of less than 1 μs . The device is used to obtain photographic records of the flow pattern in an ultrasonic aerodynamic tube. / The principle of the instrument was described by Fitzpatrick and Hubbard (Ref 1) and Beams et al

(Ref 2). A general scheme is illustrated in Figure 1. The device consists of a capacitor with a spark gap 2, a high resistance R (equal to 200 MD,), a DC voltage source and a blocking device 1 which earths the capacitor when the supply is

switched off. A cylindrical capacitor with a calcium

titanate dielectric having an electrical strength of ν 18 - 22 kV/mm, a resistivity of 10 - 10 ρ cm and ν

Card1/3

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是是一个人,现代的一个人的现在,我们是一个人的现在分词,这个对于一个人的,这个人的人,这个人的人,这个人的人的人的,我们就是一个人的人的人的,我们就是一个人的人

5/120/60/000/02/032/052

Spark Generator with a Flash Duration of Less Than 1 us

dielectric constant of 140 - 150 was employed. Other materials which can be employed are solid solutions of barium titanate, strontium titanate and "SVT material". Figure 2 shows the illuminating device. It consists of a capacitor and a spark gap formed by the leads 1 and 2, having 1.5 mm dia tungsten electrodes at the ends. The dielectric 5 of the capacitor was made of calcium titanate and the electrode 4 of silver. In order to reduce the impedance, the length of the leads to the spark gap was kept as small as possible. Tungsten was chosen in order to reduce afterglow. The device is held in position by the metal holder 3, fixed to an earthed base and is charged through the line 7 . The charge is excited by a high-voltage generator (AKI-50) through a resistor of 200 Ma (glass tube 2.5 x 2.5 mm², ~1 m in length, filled with alcohol and using fused molybdenum electrodes). At a voltage of 16 - 20 kV and a spark gap of 5-10 mm the L

Card 2/3

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Spark Generator with a Flash Duration of Less Than 1 us

discharge frequency lay between 0.3 and 0.5 cps (in atmosphere at NTP). The illuminator was used to obtain photographic records of processes in an ultrasonic aerodynamic tube. The processes could also be estimated visually in view of the low frequency involved. There are 3 figures and 2 English references.

ASSOCIATION: Gosudarstvennyy issledovateliskiy elektrokeramicheskiy institut (State Research Institute for Electroceramics),

SUBMITTED: January 25, 1959

Card 3/3

s/081/63/000/004/024/051

Drozdov, N. G., Valeyev, Kh. S., Mashkovich, H. D. AUTHORS:

Nonlinear semiconductors on the basis of zinc and titanium TITLE:

oxides with glass admixture

Referativnyy zhurnal. Khimiya, no. 4, 1963, 431, abstract 4M41 (Tr. Gos. issled. elektrokeram. in-ta, no. 4, 1960, PERIODICAL:

TEXT: The authors studied a possible improvement in the monlinear properties of semiconductors on the basis of ZnO-TiO2 by adding easily fusible

glass. Small additions of glass were assumed to cause an additional artificial blocking layer by forming a thin glass film on the grain surface. Low-resistant compositions of ZnO-TiO2 were first synthesized at a

temperature of 1300°C and then comminuted to maximum grain diameters of 10 - 15 μ , after which 2 - 6 % by weight of easily fusible glass were added. Burning was effected at temperatures of 1030 - 1320°C, the final temperature being maintained for about 1 hr. With rising temperature of

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858430002-0" Nonlinear semiconductors on the ...

S/081/63/000/004/024/051 B187/B208

burning resistivity dropped abruptly owing to a reduction of the contact resistances caused both by diminution of the spacings between the grains and by a reduction in the number of contact places in the process of recrystallization. Under otherwise equal conditions resistivity considerably increases with an increasing proportion of easily fusible glass and with increasing TiO₂-content. The nonlinearity coefficient was found to be increased considerably by adding small amounts of easily fusible glass to a semiconductor composition of the Tn₂TiO₄- ZnO type, both at high and low voltages. Abstracter's note: Complete translation.

Card 2/2

ACCESSION NR: AR3000544

3/0081/63/000/007/0409/0409

SOURCE: RZh. Khimiya, Abs. 7022

AUTHOR: Valeyev, Kh. S.; Nashkovich, M. D.

TITLE: Effects of thermal treatment on conductance of semiconductors of ZnO-TiO sub 2 system

CITED SOURCE: Tr. Gos. issled. elektrokeram. in-ta, vyp. 4, 1960, 70-

TOPIC TAGS: conductunce; semiconductors ZnO-TiO sub 2; heat treat-

TRANSLATION: Presentation of the results of a study of the effects of thermal treatment procedures (firing and iterative reheating) on electro-physical characteristics of materials of zno-titanium dioxide system, consisting of a mixture of two crystalline phases: spinel of

Card 1/2

ACCESSION NR: AR3000544

composition Zn sub 2 TiO sub 4 and, depending on the ratio of ZnO and TiO sub 2, either free ZnO or TiO sub 2. It was ascertained that final temperature of firing, reheating and rate of cooling exert an influence on specific resistance value and on the value of its temperature coefficient. G. Gerashchenko

DATE ACQ: 21May63

ENCL: 00

SUB CODE: 00

Card 2/2

VALEYEV, Kh.S., kand.tekhn.nauk; MEDVEDOVSKAYA, E.I., inzh.; NOIKINA, S.D., inzh.

Synthesis of zinc stannates. Trudy GIEKI no.4:80-86 '66.

(Mira 15:1)

(Zinc stannate)

S/032/61/027/004/025/026 B103/B201

15.2300 1273, 1136, 1160

AUTHORS: Valeyev, Kh. S., Kostyukov, N. S., and Smirnova, T. M.

TITLE: Measuring apparatus for viscosity with continuous

recording of the torsion angle and of temperature

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 4, 1961, 472-474

TEXT: The authors worked out the device of viscosity measurement between 10⁸ and 10¹⁴ poises for ceramic substances (refractories, electrical and radiotechnical ceramics) in the plastic state between 20 and 1550°C. The torsion rate of a cylindrical specimen is measured under constant load. Since the viscosity of ceramic substances as well as of structured liquids depends not only on temperature, but on time as well, this property must be determined both under dynamic and static conditions. The authors' instrument serves for determining these two dependences. Furthermore, it can be used to record the deformations of the specimen while cooling (in the reverse motion). In measurements under dynamic conditions, temperature and deformation are recorded by means of two

Card 1/7

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858430002-0"

S/032/61/027/004/025/028 B103/B201

Measuring apparatus for viscosity ...

light beams on photopaper inserted in a drum by Kurnakov Abstracter's note: not described in the text). The deformation of the specimen is only recorded under static conditions. The torsional force is in this case applied to the specimen at the instant when the temperature of recording is attained. Cylindrical specimens with a neck 10 mm in diameter and 8 mm in height, serving as the working piece, are used. The torsional moment is transmitted via the upper and the lower groove to the thickened parts of the specimen. A scheme of the apparatus is presented in Fig. 1. A Silit oven 2 rests upon the lifting table 1. The torsion system 3 and the table are fastened to brackets in the floor and in the wall, respectively. An asbestos-cement plate 4 protects system 3 against the heat. The wall chest houses the temperature-recording mirror galvanometer 6 (Type M-21 (M-21)), two light sources 7, mirror 8, Kurnakov drum 9, shunt 10 as a connection of thermocouple 11 to 6, autotransformer 12, and Warren motor 13 with reductor 14 for raising the voltage in the heater elements of the oven. Fig. 2 presents the construction of the torsion system. The fixed cylinder 1 made of refractory ceramics is fastened to the lower steel plate 2 by means of The upper plate 4 is linked to the lower one by means four screws 3.

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858430002-0"

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S/032/61/027/004/025/028 B103/B201

Measuring apparatus for viscosity ...

of four pins 5. Two arms 6 welded on plate 4 support the whole system hanging from bracket carrier 7 in the wall. A mobile cylindrical bar 8 made of refractory ceramics is by means of pin 9 connected to balance arm 10 via shaft 12 which rotates freely in bearing 11. Drive pulley 13 is fixed to the upper end of the shaft 13 and weights 14 are connected by means of threads guided over rolls 15. Three adjusting screws 17 regulate height and inclination of mirror 16. To mount the sample in the oven, the latter is lowered by a worm drive, until the clamping device is freely accessible. Drive pulley 13 is turned by about 1/3 of the full turn, and the specimen is inserted between the mobile and the fixed clamping device. The oven is then lifted such that the specimen is brought into its center, whereupon the heater elements are heated with adjustable voltage. The drum rotates at speeds of 8, 2, 0.5, and 0.21 rpm. The temperature is measured prior to recording, and the temperature curve is calibrated. Pyrometer of the type MNN-154 (MPP-154) is used for this purpose. Recording has been performed by the authors at 0.5 rpm. Fig. 3 presents the course of the deformation curve of an electrotechnical porcelain specimen under dynamic conditions. Torsion began at 990°C. The curve shows a distinct break between 1060 and 1110°C. In the

Card 3/7

S/032/61/027/G04/025/028 B103/B201

Measuring apparatus for viscosity ...

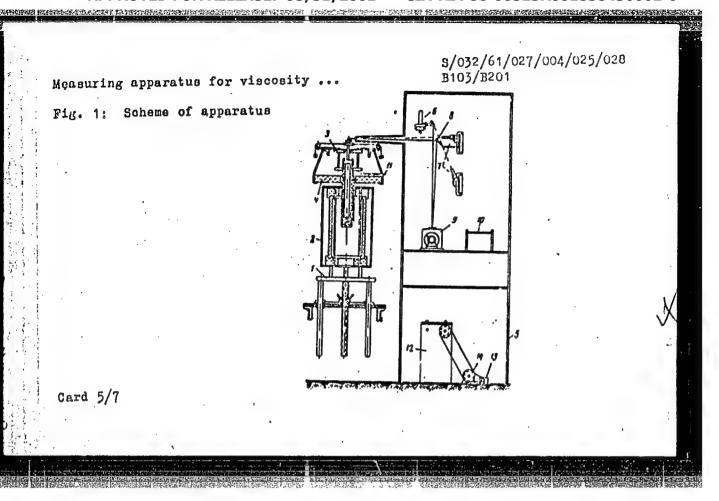
mathematical interpretation, the straight part of the deformation curve is extended to the left (x-axis), and divided into equal, 5-mm long sections by means of vertical lines. The distances from the x-axis to the points of intersection of the vertical sections \mathbf{K}_n and \mathbf{K}_{n-1}

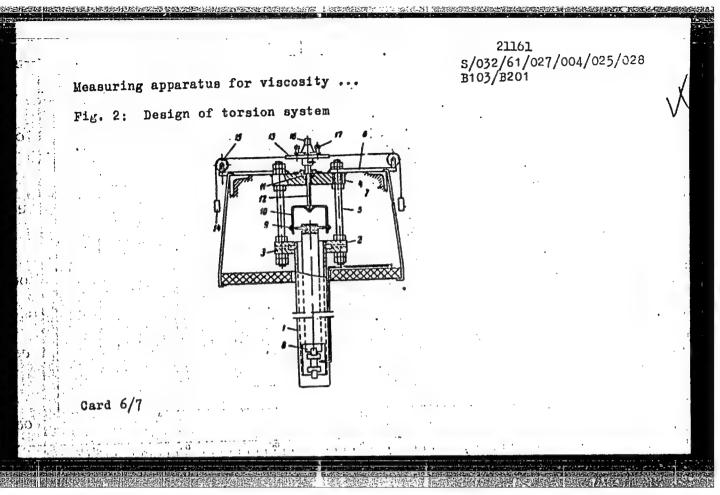
with the deformation curve indicate the curvature at given instants. The deformation angle $\Delta \phi$ within the time $\Delta \tau$ = 125 sec is determined therefrom, and next, the viscosity is determined in poises by means of calculation formulas. Calculation results permit constructing $\log \eta$ as a function of temperature or time. There are 4 figures and 2 Soviet-bloc references.

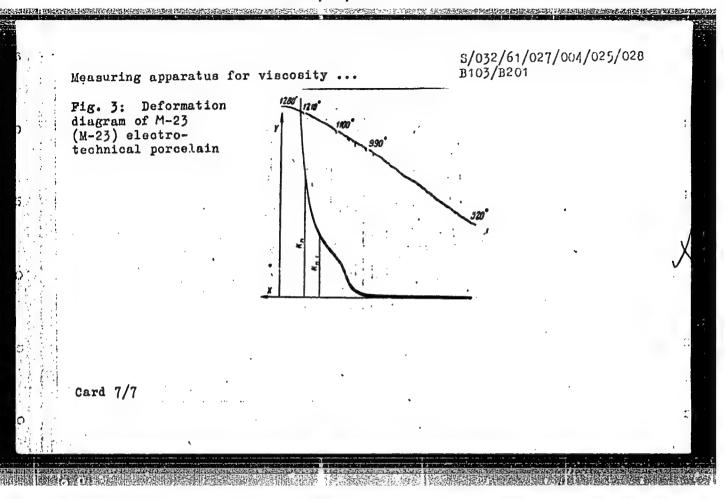
ASSOCIATION:

Gosudarstvennyy nauchno-issledovatel'skiy elektrokeramicheskiy institut (State Scientific Research Institute of Electroceramics)

Card 4/7







.VALEYEY, Kh.S., kand.tekhn.nauk (Moskva); GAREVSKIY, V.N., inzh. (Moskva);

KOSTYUKOV, N.S., kand.tekhn.nauk (Moskva)

Change in the electrical strength of high-waltage porcelain subject to the action of high-voltage d.c. with long duration.

Elektrichestvo no.1:59-61 Ja '63. (MIRA 16:2)

(Electric insulators and insulation)

(Porcelain—Electric properties)

VALEYEV, Kh.S. (Mpskva); YESIKOV, Yu.G. (Moskva)

Discharge voltage of insulators with high ambient relative humidity.
Elektrichestvo no.4:86-88 Ap '63.
(Electric lines—Overhead) (Electric discharges)

BOGORODITSKIY, N.P.; VAVILOV, V.S.; VALEYEV, Kh.S.; DROZDOV, N.G.; KORITSKIY, Yu.V.; PRIVEZENTSEV, V.A.; RENNE, V.T.; TAREYEV, B.M.; YAMANOV, S.A.

B.M. Vul; on his 60th birthday and 35th anniversary of his scientific work. Elektrichestvo no.8:95 Ag '63. (MIRA 16:10)

Shad (WWW, A.T., 16.3h. (Weekva); Willeyfal, Khi.S., kand.tekhn.nauk (Moskva)

Conshaeration of the aging of the dielectric in designing ceramic condensars with large reactive power. Elektrichestvo no.3:37-41 Mr '64. (MIRA 17:4)

ACCESSION NR: AP4029147

5/0105/64/000/004/0072/0076

AUTHOR: Valeyev, Kh. S. (Candidate of technical sciences); Knyazev, V. A.; Drozdov, N. G. (Doctor of technical sciences, Professor)

TITLE: Nonlinear semiconductor resistors based on zinc, silicon, and tin oxides

SOURCE: Elektrichestvo, no. 4, 1964, 72-76

TOPIC TAGS: zinc oxide orthostannate semiconductor, zinc oxide orthosilicate semiconductor, nonlinear semiconductor

ABSTRACT: Zinc oxide was selected as a semiconductor in the investigation reported, and TiO_2 , SiO_2 , SiO_2 , SiO_2 , AI_2O_3 , B_2O_3 were tried as dielectric-forming substances. Specifically, two-component $ZnO - SiO_2$ and $ZnO - SnO_2$ ceramics were investigated. Thermographic and petrographic studies of ZnO, SiO_2 , SnO_2 and their mixtures in various molecular ratios were conducted. It was found that at 1150—1270 C, the $ZnO - SiO_2$ compound had a slight exothermic effect and exhibited a pronounced expansion of the specimens. Zinc orthosilicate proved to be a good dielectric with $\varepsilon = 8$, $\rho = 10^{12}$ ohms/cm and a breakdown voltage of

Card 1/2

ACCESSION NR: AP4029147

30 kv/mm. Zinc orthostannate could be sintered at 1480 C and had & = 10 and a breakdown voltage of 25 kv/mm. In the specimens certain proportions were held between the mount of zinc-oxide crystals and that of the ortho-compound. Additional barrier layers were created in some experiments by introducing a low-melt glass. The static current-voltage characteristics, nonlinearity factor, resistance to 20/40-psec current pulses, pulse-carrying capacity, density, specific heat capacity, and thermal conductivity were measured. It was found that the degree of nonlinearity of the material can be controlled by introducing low-melt glass. Orig. art. has: 5 figures, 7 tables, and 4 formulas.

ASSOCIATION: Gosudarstvenny*y issledovatel'skiy elektrokeramicheskiy institut (State Electroceramic Research Institute); Moskovskiy energeticheskiy institut (Moscow Power-Engineering Institute)

SUBMITTED: 20Dec63

ATD PRESS: 3050

ENCL: 00

SUB CODE: EC.

NO REF SOV: 014

OTHER: 003

Card . 2/2

ALAD'YEV, A.T., kand. tekhn. nauk; VALEYEV, Kh.S., kand. tekhn. nauk

Effect of the cooling of ceramic condensers with large reactive power rating on the heat stresses in the dielectric. Elektrichestvo no.6: 65-67 Je '65. (MIRA 18:7)

1. Gosudarstvennyy nauchno-issledovatel'skiy elektrokeramicheskiy institut.

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430002-0"

27-1-11/19 27-1-11/19

AUTHOR: Valeyev, M., Teacher at the Trade School # 12 (Tatarskaya

ASSR)

TITLE: Our Pedagogical Study (Nash pedagogicheskiy kabinet)

PERIODICAL: Professional'no-Tekhnicheskoye Obrazovaniye, 1958, # 1,

p 22 (USSR)

ABSTRACT: The article deals with the problem how to achieve a higher pedagogical and cultural standard of the teaching staff in professional schools (Uchebnyye zavedeniya trudovykh rezervov).

Many professional schools have established special pedagogical studies supplied with various matters of instruction on professional and theoretical teaching and educational work. One finds here examplary time-tables, lesson abstracts, methodical treatments, pamphlets composed by experienced teachers, information about new technical achievements, new text-books and different teaching appliances.

text-books and different teaching applications.

The part dedicated to professional teaching contains a list of school work, lesson plans, materials showing labor methods of production innovators, different programs and instructions on normalization of productional school work

Card 1/2

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Our Pedagogical Study

27-1-11/19

and the technics of safety precautions. Special albums contain reproductions of devices manufactured by school masters and applied for teaching purposes.

The educational division contains political propaganda, sports news, works of masters and teachers on educational questions and proposed subjects for scientific, political and technical discussions.

At present the pedagogical study gets from the All-Union Society for Distribution of Scientific and Political Information (Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy) 27 different newspapers, journals and booklets, bulletins and methodical works, some publications of the Labor Reserves Chief Administration and other literature.

One corner of the study is reserved for the preparation of lectures. Here one finds a recommended list of literature on every subject, text-books, newspaper and journal cuttings and other materials.

AVAILABLE:

Library of Congress

Card 2/2

IVANOV, V P.; VALEYEV, M.Kh.

Organizing operations for the rapid construction and installation of drilling rigs in the Tatar Oil Well Drilling Trust. Neft. khoz. 42 no. 5:17-24 My '64. (MIRA 17:5)

BAZHENOVA, A.P., doktor med. nauk ; VALEYEV, M.V.

Problems in the etiology, clinical aspects and treatment of cancer of the penis. Khirurgiia no.3:103-108 '63. (MIRA 16:5)

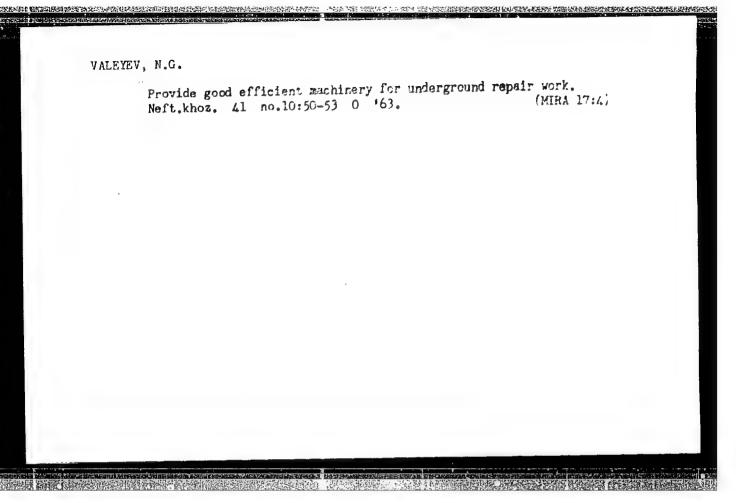
1. Iz Gosudarstvennogo onkologicheskogo instituta imeni P.A.
Gertsena (direktor - prof. A.N.Novikov).

(PENIS-CANCER)

Pay greater attention to screw pumps. Neftianik 7 no.7:16 Jl '62.

1. Starshiy inzh. promysla No.5 neftepromyslovogo upravleniya
Tuymazaneft'.

(Tuymazy region—oil well pumps)



VALEYEV, N.M., student VI kursa

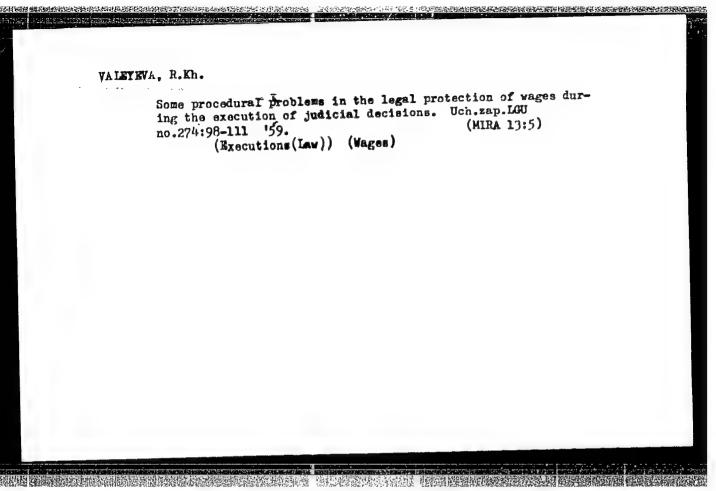
Physical education as a health factor in the schedule of students' summer camps. Zdrav. Ros. Feder. 4 no. 10:36-38 0 '60.

(MIRA 13:10)

的现在分词,这种人,我们是一个人的人,我们也不是一个人的人,这个人的人,我们也不是一个人的人,这个人的人,我们也没有一个人的人,我们就是这些人的人,我们就是这些人

1. Iz Bashkirskogo meditsinskogo instituta (direktor - dotsent N.F. Vorob'yev).

(STUDENTS—RECREATION) (PHYSICAL EDUCATION AND TRAINING)



VALEYEV., R.M.

Characteristics of the development and growth of spring wheat, oats and barley sown in winter and in spring. Nauch. dokl. vys. shkoly; biol. nauki no.4:128-132 '64. (MIRA 17:12)

l. Rekomendovana kafedroy fiziologii rasteniy Bashkirskogo gosudaratvennogo universiteta im. 40-letiya Oktyabrya.

VALEYEV, R.N.

的对面对它们。如此的时候对你们的结合的对称的"你的是我们是一个可能的人的一个可能是不是

Tectonic pattern and the history of the geological development of the Kirov-Kazan trough. Izv. vys. ucheb. zav.; neft' i gaz 4 no.11:11-15 '61. (MIRA 17:2)

1. Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-Lenina.

VALEYEV, R.N.; TROYEPOL'SKIY, V.I.

Tectonic characteristics and oil potential of the Tatar Arch.

In. vys. ucheb. zav.; neft' i gaz 5 no.6:9-14 '62. (MIRA 16:5)

1. Kazanskiy gosudarstvennyy universitet imeni V.I.Ul'yanova-Lenina. (Tatar A.S.S.R.—Petroleum geology)

ELLERN, S.S.; PEN'KOV, I.N.; SITDIKOV, B.S.; VALEYEV, R.N.; MATYAYEVA, K.I.

Association of hydrothermal carbonate, bitumen, and sulfides in the Devonian of the northern part of the Kazan-Kirovo trough. Dokl.AN SSSR 145 no.5:1123-1126 '62. (MIRA 15:8)

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AID P - 5056

Subject

: USSR/Engineering-Welding

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Pub. 107-a - 5/9

Authors

Tret'yakov, F. E., A. B. Karan and S. W. Valeyev

Title

: Arc-welding of thin steel plates with a COo shield

Periodical

: Svar. proizv., 20-22, My 1956

Abstract

The authors present the results of their experimental research on automatic and manual carbon dioxide arc welding of steel plates 1 to 3 mm thick, carried out at the "Elektrik" (Electrician) Plant (Leningrad). The ADS-1000-2 welder was used, some other equipment and electrodes were described. Five tables, 2 diagrams,

2 graphs, 3 photos, and GOST standards.

Institutions: Scientific Research Institute of Aviation Technology (NIAT), All Union Scientific Research Institute of the

Autogenous Treatment of Metals (VNIIAvtogen).

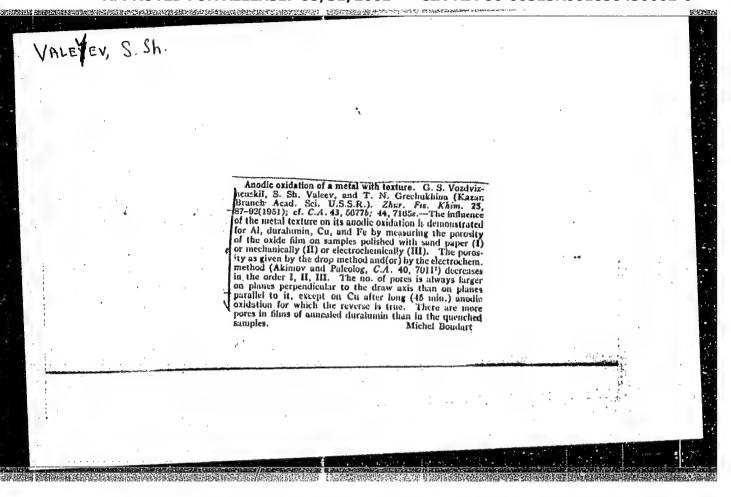
Submitted : No date

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ty of the plants standing in the cluster, and sowing me-

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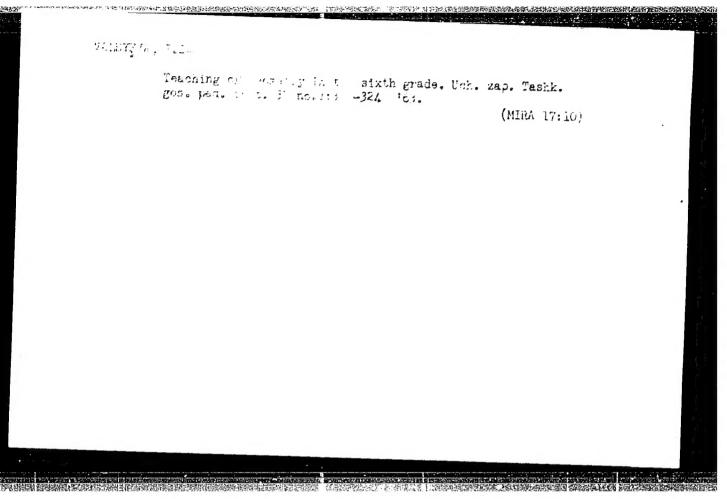
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